

Fanshawe College

## FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

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Documentation (Approvals etc...)

Renewable Energies Technician

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2018

### RET3S Curriculum Modification for 2019-20

Fanshawe College

Follow this and additional works at: [https://first.fanshawec.ca/cae\\_stthomaselgin\\_renewableenergiestech\\_documentation](https://first.fanshawec.ca/cae_stthomaselgin_renewableenergiestech_documentation)

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# CURRICULUM MODIFICATION REQUEST FORM

FOR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

Changes

Program Title: Renewable Energies Technician

Program Number: RET3S

Date Submitted: 11/9/2018

Dean responsible for program: Susan Cluett

Chair: Ross Fair

Credential Provided:

- ☐ Declaration of Academic Achievement ☐ Local Certificate ☐ Ontario College Certificate  
☒ Diploma ☐ Advanced Diploma ☐ Grad Certificate ☐ Degree ☐ Apprenticeship

Program Intakes: ☒ F ☐ W ☐ S Other:

Catalogue Year(s) Impacted: 2019/2020

Residency Requirement: ☒ Met or ☐ Not Met

Date of Last Program Review: Click here to enter a date. 12/2018

*I have read the reasons for the change and...*

*Signature and date*

Dean of Faculty (Lead program):

- ☒ Approve  
☐ Do Not Approve

*Cluett Nov 17/18*

Dean of Faculty (Affiliate program-impacted by change):

- ☐ Approve  
☐ Do Not Approve

Dean of Faculty (Affiliate program-impacted by change):

- ☐ Approve  
☐ Do Not Approve

Senior Vice President Academic (required for major changes and late DAs):

- ☐ Approve  
☐ Do Not Approve

Director, Centre for Academic Excellence:

- ☒ Supports  
☐ Does Not Support

*Judy Giesler DEC 21/18*

Office of the Registrar:

- ☒ Supports  
☐ Does Not Support

*Amber Hamood Nov. 29/18*

Notes:

*Titles differ - proposed DA to appendix 1. which version is correct?  
 Has Co-op been consulted? Confirm: see attached email*

*Please answer each of the questions below, if applicable. Missing or incomplete information may delay review of the proposed changes.*

**1.0 Describe proposed change(s). Complete Appendix A (if necessary) and amend SDAR (Refer to Appendix C).**

**Level 1**

- ELEC-1136 Change hours of course: a) due to conversion from 16 week to 15 week course, b) to increase and enhance content to better meet CLOs.
- ELEC-1137 Change hours of course: a) conversion from 16 week to 15 week course.
- SFTY-1047 Change hours of course: a) conversion from 16 week to 15 week course.
- SFTY-1054 Change hours of course: a) conversion from 16 week to 15 week course.
- MATH-1213 New Course – to align with other trades math courses.
- DEVL-1054 Replaces COMP-1336 to update and enhance CLOs and EES.

**Level 2**

- MATH-3090 New Course – to align with other trades math courses.
- ELEC-3060 Change hours of course: a) conversion from 16 week to 15 week course.
- ELEC-3061 Change hours of course: a) conversion from 16 week to 15 week course.
- MECH-1105 Change hours of course: a) due to conversion from 16 week to 15 week course, b) to increase and enhance content to better meet CLOs.
- MECH-1103 Change hours of course: a) due to conversion from 16 week to 15 week course, b) to increase and enhance content to better meet CLOs.
- ENVR-5014 Name amendment: Alternative Energy Generation Methods 1

**Level 3**

- ENGR-5010 Change hours of course: a) conversion from 16 week to 15 week course.
- ENGR-5011 Change hours of course: a) conversion from 16 week to 15 week course.
- ENVR-5015 Change hours of course: a) conversion from 16 week to 15 week course.
- ELNC-3036 Change hours of course: a) conversion from 16 week to 15 week course.
- ELNC-3037 Change hours of course: a) conversion from 16 week to 15 week course.

**Level 4**

- MTNC-5005 Change hours of course: a) conversion from 16 week to 15 week course.
- MTNC-5006 Change hours of course: a) conversion from 16 week to 15 week course.
- CNTL-3012 Change hours of course: a) conversion from 16 week to 15 week course.
- CNTL-3013 Change hours of course: a) conversion from 16 week to 15 week course.
- ENVR-5017 New Course: Alternative Energy Generation Methods 2

**2.0 Reason/Rationale for Changes**

**2.1 The reason for the change is based on:**

- ☒ A recent program review
- ☐ Program Advisory Committee feedback
- ☒ Student feedback
- ☐ KPI results
- ☐ Accreditation or other regulatory requirements



- ☒ Shared curriculum
- ☒ Trends in the field/industry
- ☐ Other (please describe):

2.2 Does the change support the College's Strategic Framework (mission, vision, values)?

- ☒ Yes
- ☐ No (If no, please explain)

2.3 What strategic goal(s) does the proposed change support?

- ☒ Goal 1 - Enhance innovative practices for exceptional student learning
- ☒ Goal 2 - Manage enrolment growth
- ☒ Goal 3 - Optimize use of resources
- ☐ Goal 4 - Build sustainable sources of alternative revenue

### 3.0 Students

3.1 Will the change affect the cost of the program for students?

- ☒ Yes
- ☐ No

3.2 If yes, there will be an additional cost for:

- ☒ Materials (Include details): Textbooks
- ☐ Equipment (Include details):
- ☒ Other (Please describe): Co-op Fee, Living expenses

### 4.0 Program Learning Outcomes

4.1 Will the proposed change meet the Program Vocational Learning Outcomes? (Complete Appendix B and mark the changes in the mapping [e.g. red font])

- ☒ Yes
- ☐ No

4.2 Are there any implications related to progression because of pre-requisite courses (and/or co-requisite courses)?

- ☒ No
- ☐ Yes (If yes, please explain)

### 5.0 Relationships with Other Programs

5.1 Are any of the courses impacted by the change provided by another School (e.g., SLLS, LKSB) and/or delivered at another campus?

- ☒ No
- ☐ Yes

5.2 What Schools/Campuses will be impacted by the proposed change?

- ☐ Lawrence Kinlin School of Business
- ☐ School of Information Technology
- ☐ School of Tourism, Hospitality and Culinary Arts
- ☐ School of Community Studies
- ☐ School of Health Sciences
- ☐ School of Nursing
- ☐ School of Public Safety
- ☐ School of Contemporary Media
- ☐ School of Design
- ☐ School of Language and Liberal Studies
- ☐ Donald J. Smith School of Building Technology
- ☐ Norton Wolf School of Aviation Technology
- ☐ School of Applied Sciences and Technology
- ☐ School of Transportation Technology and Apprenticeship
- ☐ Continuing Education
- ☐ Simcoe/Norfolk Regional Campus
- ☒ St Thomas/Elgin Regional Campus
- ☐ Woodstock/Oxford Regional Campus
- ☐ Huron/Bruce Regional Sites

5.3 Will the change affect pathway agreements (e.g., bridging, articulations, laddering, advanced standing) with other Fanshawe program(s) and/or other institution(s)?  
(Refer to the pathway agreements listed here: <http://transferagreements.fanshawec.ca/>)

- ☒ No
- ☐ Yes (If yes, indicate when you will notify the other Fanshawe program(s) and/or other institution(s) and the Pathways Coordinator in the Centre for Academic Excellence of the change)

5.4 If this program is a Co-Operative Education program, will the proposed change impact Co-op?

- ☐ No
- ☒ Yes (If yes, consult with the Co-op office prior to submission)

6.0 Resource Implications of Proposed Changes

6.1 Will the proposed change have staffing implications?

- ☒ No
- ☐ Yes (If yes, please explain)

6.2 Will the proposed change impact any of the Enabling areas?

- ☒ No  
☐ Yes (If yes, please explain)

6.3 Will the proposed change affect space and/or technology requirements?

- ☒ No  
☐ Yes (If yes, please explain)

## 7.0 General College Requirements

7.1 Are changes consistent with Colleges policies?

- ☒ Yes  
☐ No (If no, please explain)

7.2 Will the program meet the General Education requirements (Policy 2-B-02) as listed below?

- ☐ No  
☒ Yes

<b>Local Certificate, Ontario College Certificate and Graduate Certificate</b> - none required)	<b>Diploma</b> - 3 required (minimum of 1 must be an elective)	<b>Advanced Diploma</b> - 4 required (minimum of 2 must be electives)
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7.3 Will the program have 25% distinct curriculum to meet the Residency Requirement of 25% credit units? Consider all pathway agreements (e.g., bridging, internal articulations, laddering, advanced standing) with other Fanshawe programs and/or other institutions.

- ☐ No  
☒ Yes

**Note:** In accordance with POLICY NUMBER: 2-B-17 Graduation from Approved College Programs

...to be eligible for any College Credential a student must be enrolled and complete at least 25% of that program's credit units at Fanshawe College, unless stipulated differently by other approving bodies such as the Postsecondary Education Quality Assessment Board (PEQAB).

7.4 Indicate:

- i) Total program hours before proposed change: 1211  
ii) Total program hours after proposed change: 1296  
iii) Level(s) in which the proposed change(s) occurs: 1, 2, 3, addition 4

+ 85

7.4.1 Are the total program hours consistent with the requirements as listed below?

☒ Yes

☐ No (If no, please explain)

<b>Local Certificate</b> - 300 hours	<b>Ontario College Certificate</b> - 600 hours
<b>Diploma</b> - 1200 to 1400 hours	<b>Advanced Diploma</b> - 1800 to 2100 hours
<b>Graduate Certificate</b> - 600 hours	



APPENDIX A: PROPOSED CURRICULUM MODIFICATION

Course Code	Existing DA Courses	Total Hours	Total Credits	Describe proposed changes	Course Code	Proposed DA Courses	Total Hours	Total Credits
Level 1								
ELEC-1136	Renewable Energy Electricity	72	5	Increase hours and content	ELEC-1136	Renewable Energy Electricity	90 ✓	
ELEC-1137	Applied Electrical Techniques	64	2	Adjust hours for 15 wks	ELEC-1137	Applied Electrical Techniques	60 ✓	
SFTY-1047	Renewable Energy Safety	40	3	Adjust hours for 15 wks	SFTY-1047	Renewable Energy Safety	45 ✓	
SFTY-1054	Safe Work Practices	40	1.5	Adjust hours for 15 wks	SFTY-1054	Safe Work Practices	30 ✓	
MECH-1105	Wind Turbine Systems	64	4	Move to Level 2	DEVL-1054	Skills for Career Success	30 ✓	
MECH-1103	Practical Hydraulics & Mechanics	48	1.5	Move to Level 2	COOP-1020	Employment Preparation	6 ✓	
MATH-1021	Math for Electronics	64	4		MATH-1213	Math for Electronics 1	30 ✓	
TOTAL		392	21	+GE (45)		TOTAL	291	0
Level 2								
ELNC-3036	Motor Controls & Automation Theory	72	5	Move to Level 3	MECH-1105	Wind Turbine Systems ✓	75	
ELNC-3037	Applied Motor Controls	64	2	Move to Level 3	MECH-1103	Practical Hydraulics and Mechanics ✓	60	
CNTL-3012	Programmable Logic Controllers Theory	48	3	Move to Level 4	ENVR-5014	Alternative Energy Generation Methods 1 ✓	60 ✓	
CNTL-3013	PLC Application	48	1.5	Move to Level 4				
ELEC-3060	Renewable Energy Wiring Practices	48	3	Increase hours and content	ELEC-3060	Renewable Energy Wiring Practices ✓	45 ✓	
ELEC-3061	Practical Wiring Techniques	48	1.5	Adjust hours for 15 wks	ELEC-3061	Practical wiring Techniques ✓	45 ✓	
CADD-1039	Computer Aided Design	30	2	Move to Level 3	MATH-3090	Math for Electronics 2 ✓	30 ✓	
BUSI-1103	Introduction to Small Business Concepts	45	3	GE *	BUSI-1103	Introduction to Small Business Concepts ✓	45 ✓	
TOTAL		403	21	-43		TOTAL	360	0
Level 3								
ENGR-5010	Photovoltaic Systems	72	5	Adjust hours for 15 wks	ENGR-5010	Photovoltaic Systems	75	
ENGR-5011	Applied Photovoltaic Techniques	48	1.5	Adjust hours for 15 wks	ENGR-5011	Applied Photovoltaic Techniques	45	
MTNC-5005	Wind Turbine Maintenance Theory	88	6	Move to Level 4	ELNC-3036	Motor Controls & Automation	75	
MTNC-5006	Wind Turbine Maintenance Techniques	80	2.5	Move to Level 4	ELNC-3037	Applied Motor Controls	60	
ENVR-5015	Energy Efficiency & Sustainability	64	4	Adjust hours for 15 wks	ENVR-5015	Energy Efficiency & Sustainability ✓	60	
ENVR-5014	Alternative Energy Generation Methods	64	3	Move to Level 2	CADD-1039	Computer Aided Design	30	
TOTAL		416	22	-71		TOTAL	345	0
Level 4								
					CNTL-3012	Programmable Logic Controllers Theory	45	
					CNTL-3013	PLC Applications	45	
					MTNC-5005	Wind Turbine Maintenance Theory ✓	75	
					MTNC-5006	Wind Turbine Maintenance Techniques	75	
					ENVR-5017	Alternative Energy Generation 2	60	
TOTAL		0	0	Gen Ed.		TOTAL	45	0

PROGRAM TOTAL 1211 64

PROGRAM TOTAL 1296 0

1301 with ac

1386

+85

+18

-4

+5

-10

-34

-42

-34

-4

+12

-48

-3

-3

-46

-3

-13

-20

-4

-34

-74

+GE (45)

GE\*

-43

-71

Gen Ed.



# COMMS - Vocational Learning Outcomes by Program, Level and Course

Program Name: Renewable Energies Technician  
 Program Code: RET2S (RET2S-STE-20189)  
 Academic Year: 2019-2020  
 Date Generated: draft

Program Name: Renewable Energies Technician  
 Program Code: RET2S (RET2S-STE-20189)  
 Academic Year: 2019-2020  
 Date Generated: 11/01/2018  
 Only Display Core Courses:

Level 1												
Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
ELEC-1136	DC & AC Electrical Theory	I		I	I	I	I				I	I
ELEC-1137	Applied Electrical Techniques	I		IB	I	IB	I				I	I
MATH-1213	Mathematics for Electronics 1									IBC		
SFTY-1047	Renewable Energy Safety	IBC		I			I				IB	
SFTY-1054	Safe Work Practices	BC	B	B		B		B			B	
DEVL-1054	Skills for Career Success										I	IB
COOP-1020	COOP Education Employment Prep											
	Gen Ed Course											
Level 2												
Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
MATH-3090	Mathematics for Electronics 2									IBC		
ELEC-3060	Fundamentals of Wiring Practices	IBC	B	B	IBC	IBC	B			BC	IBC	B
ELEC-3061	Practical Wiring Techniques	B		B	BC	B	BC		B	IBC	IBC	
MECH-1105	Wind Turbine Systems	I	I		I	I	I				I	I
MECH-1103	Practical Hydraulics & Mech.	I		I	I	I	I			I		
BUSI-1103	Introduction to Business										I	I
ENVR-5014	Alternative Energy Systems 1	C	C	BC	BC	C	C	C		IBC	BC	B

Level 3

Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
ENGR-5010	Photovoltaic Systems	BC	BC	IBC	BC	IBC	C	C	IBC	IBC	IBC	B
ENGR-5011	Applied Photovoltaic Techniques	C	BC	BC	BC	IBC	IBC	C	IBC	IBC	IBC	BC
ENVR-5015	Energy Efficiency									C	C	
ELNC-3036	Motor Controls & Automation			B		BC	BC			B	BC	
ELNC-3037	Applied Motor Controls	BC	B	BC	BC	B	B			BC	B	
CADD-1039	Computer Aided Design						IBC					

Level 4

Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
CNTL-3012	PLC Theory	BC		BC		BC	BC	IBC				BC
CNTL-3013	PLC Applications	B	B	BC	BC	BC	BC	B			B	B
MTNC-5005	Wind Turbine Maintenance					C	C	C		BC	BC	
MTNC-5006	Wind Turbine Maint. Techniques	C	C	C	BC	C	B	IBC		BC	IBC	C
ENVR-5017	Alternative Energy Systems 2	C	C	BC	BC	C	C	C		IBC	BC	B
	Gen Ed											

I	Introductory
B	Building
C	Culminating

**COMMS - Essential Employability Skills by Program, Level and Course**

Program Name: Renewable Energies Technician  
 Program Code: RET2S (RET2S-STE-20189)  
 Academic Year: 2019-2020  
 Date Generated: draft

**Level 1**

Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
ELEC-1136	DC & AC Electrical Theory											
ELEC-1137	Applied Electrical Techniques	X	X	X	X	X	X	X			X	
MATH-1213	Mathematics for Electronics 1	X	X	X	X	X	X	X		X		X
SFTY-1047	Renewable Energy Safety			X	X	X		X				
SFTY-1054	Safe Work Practices	X	X		X	X	X	X				X
DEVL-1054	Skills for Career Success	X	X		X	X	X	X			X	X
COOP-1020	COOP Education Employment Prep	X	X				X	X	X		X	X
	Gen Ed Course											

**Level 2**

Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
MATH-3090	Mathematics for Electronics 2	X	X	X	X	X	X	X		X		X
ELEC-3060	Fundamentals of Wiring Practices			X	X	X	X	X				
ELEC-3061	Practical Wiring Techniques			X	X	X	X	X			X	
MECH-1105	Wind Turbine Systems	X	X	X	X	X	X	X			X	
MECH-1103	Practical Hydraulics & Mech.	X	X	X	X	X	X	X				
BUSI-1103	Introduction to Business	X	X	X		X		X		X		X
ENVR-5014	Alternative Energy Systems 1	X	X	X	X	X	X	X				

**Level 3**

Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
ENGR-5010	Photovoltaic Systems	X	X	X	X	X					X	
ENGR-5011	Applied Photovoltaic Techniques	X	X	X	X	X	X	X		X		
ENVR-5015	Energy Efficiency	X	X	X	X	X	X				X	X
ELNC-3036	Motor Controls & Automation	X		X	X	X	X	X				
ELNC-3037	Applied Motor Controls	X	X		X	X	X	X				X
CADD-1039	Computer Aided Design	X	X	X	X	X	X	X			X	



#### Level 4

Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
CNTL-3012	PLC Theory	X		X	X	X						
CNTL-3013	PLC Applications	X	X	X	X	X	X	X			X	
MTNC-5005	Wind Turbine Maintenance			X	X	X	X					
MTNC-5006	Wind Turbine Maint. Techniques	X	X	X	X	X	X	X				X
ENVR-5017	Alternative Energy Systems 2 Gen Ed	X	X	X	X	X	X	X				

- 1 Communicate clearly, concisely and correctly in the written, spoken and visual form that fulfills the purpose and meets the needs of the audience.
- 2 Respond to written, spoken or visual messages in a manner that ensures effective communication.
- 3 Execute mathematical operations accurately.
- 4 Apply a systematic approach to solve problems.
- 5 Use a variety of thinking skills to anticipate and solve problems.
- 6 Locate, select, organize and document information using appropriate technology and information systems.
- 7 Analyze, evaluate and apply relevant information from a variety of sources.
- 8 Show respect for diverse opinions, values, belief systems and contributions of others.
- 9 Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.
- 10 Manage the use of time and other resources to complete projects.
- 11 Take responsibility for one's own actions, decisions and consequences.

#### Legend

I	Introductory
B	Building
C	Culminating

## Degree Audit Report

Catalog: 2019/2020

Program: RET25 **RET35**  
 Department: STE - St Thomas/Elgin Campus  
 Academic Level: PS  
 CCD: 8 - 4AcadSem/1200-1400hrs  
 Credential: Ontario College Diploma

Name: Renewable Energies Technician

Grade Scheme: LG2

Major: RET2S - Renewable Energies Technician

Div: CED - Faculty of Regional &amp; Continuing Ed

Co-Op Indicator: ~~YES~~ **CO-OP MANDATORY**

## Academic Program Requirement

Total Credits: 70.00      Residency Reqmt: 18.00  
 GPA Requirement: 2.00      Residency Reqmt GPA: 2.00  
 Minimum Grade: D

## Academic Requirement: RET2S.19 Renewable Energies Technician

Major: RET1S  
 Grade Scheme: LG2  
 Minimum GPA: 2.00  
 Minimum Grade:

**SEE ATTACHED**

## Subrequirement: Level 1

Gen Ed - Take a 3 credit General Education elective course Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
✓ ELEC-1136	Renewable Energy Electricity	72.00	5.00	
✓ ELEC-1137	Applied Electrical Techniques	64.00	2.00	
✓ SFTY-1047	Renewable Energy Safety	40.00	3.00	
✓ SFTY-1054	Safe Work Practices	40.00	1.50	
✓ MECH-1105	Wind Turbine Systems	64.00	4.00	
✓ MECH-1103	Practical Hydraulics & Mechanics	48.00	1.50	
✗ MATH-1021	Mathematics for Electronics	64.00	4.00	

## Subrequirement: Level 2

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
✓ ELNC-3036	Motor Controls & Automation Theory	72.00	5.00	
✓ ELNC-3037	Applied Motor Controls	64.00	2.00	
✓ CNTL-3012	Programmable Logic Controllers Theory	48.00	3.00	
✓ CNTL-3013	PLC Applications	48.00	1.50	
✓ ELEC-3060	Renewable Energy Wiring Practices	48.00	3.00	
✓ ELEC-3061	Practical Wiring Techniques	48.00	1.50	
✗ CADD-1039	Computer Aided Design for MIM	30.00	2.00	
✓ BUSI-1103	Introduction to Small Business Concepts	45.00	3.00	**

## Subrequirement: Level 3

Gen Ed - Take a 3 credit General Education elective course Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
✓ ENGR-5010	Photovoltaic Systems	72.00	5.00	
✓ ENGR-5011	Applied Photovoltaic Techniques	48.00	1.50	
✓ MTNC-5005	Wind Turbine Maintenance Theory	88.00	6.00	
✓ MTNC-5006	Wind Turbine Maintenance Techniques	80.00	2.50	
✓ ENVR-5015	Energy Efficiency & Sustainability	64.00	4.00	
✓ ENVR-5014	Alternative Energy Generation Methods	64.00	3.00	

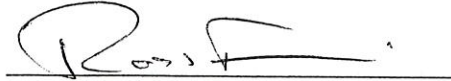
## Degree Audit Report

**Subrequirement:** Gen Ed - Electives

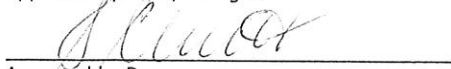
Take 6 General Education Credits - Normally taken in Levels 1 and 3

**Subrequirement:** Program Residency

Students Must Complete a Minimum of 18 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program



Approved By Chair/Manager:



Approved by Dean:

General Education Approved By(as appropriate):

STERC 11-15-18

Department and Date:

Nov 14/18

Date:

Date:

EDL  
Jan 8.19



# Proposed Degree Audit

Program Name: Renewable Energies Technician  
 Program Code: RET2S (RET2S-STE-20189)  
 Academic Year: 2019-2020  
 Date Generated: 11/01/2018  
 Only Display Core Courses:

Level 1		Total Hours	Total Credits	GE	New or Existing
Course Number	Course Name				
<i>New</i> ✓ ELEC-1136	DC & AC Electrical Theory	90			Existing
ELEC-1137	Applied Electrical Techniques	60			Existing
<i>New</i> ✓ MATH-1213	Mathematics for Electronics 1	30			New
SFTY-1047	Renewable Energy Safety	45			Existing
SFTY-1054	Safe Work Practices	30			Existing
<i>New</i> { DEVL-1054	Skills for Career Success	30			New
COOP-1020	COOP Education Employment Prep	6			New
	Gen Ed Course	45		*	Online

Total 336 ✓

Level 2		Total Hours	Total Credits	GE	New or Existing
Course Number	Course Name				
<i>New</i> ✓ MATH-3090	Mathematics for Electronics 2	30			New
ELEC-3060	Fundamentals of Wiring Practices	45			Existing
ELEC-3061	Practical Wiring Techniques	45			Existing
MECH-1105	Wind Turbine Systems	75			Existing
MECH-1103	Practical Hydraulics & Mech.	60			Existing
BUSI-1103	Introduction to Business	45			Existing
ENVR-5014	Alternative Energy Systems 1	60			Existing

Total 360 ✓

Level 3		Total Hours	Total Credits	GE	New or Existing
Course Number	Course Name				
ENGR-5010	Photovoltaic Systems	75			Existing
ENGR-5011	Applied Photovoltaic Techniques	45			Existing
ENVR-5015	Energy Efficiency	60			Existing
ELNC-3036	Motor Controls & Automation	75			Existing
ELNC-3037	Applied Motor Controls	60			Existing
<i>New</i> ✓ CADD-1039	Computer Aided Design	30			Existing

Total 345 ✓

Level 4		Total Hours	Total Credits	GE	New or Existing
Course Number	Course Name				
CNTL-3012	PLC Theory	45			Existing
CNTL-3013	PLC Applications	45			Existing
MTNC-5005	Wind Turbine Maintenance	75			Existing
MTNC-5006	Wind Turbine Maint. Techniques	75			Existing
<i>New</i> ✓ ENVR-5017	Alternative Energy Systems 2	60			New
	Gen Ed	45			Online

Total 345

Program Total Hours 1386 hours ✓  
 without CO-OP Seminar (6 hrs) 1380 hours ✓  
 without Gen Eds 1296 hours ✓

*moved from level 4 - 3 to 4*

*TJ*  
*DEC 21 / 18*

## de Groot, Elizabeth

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**From:** Dobson, Terry  
**Sent:** September 28, 2018 10:04 AM  
**To:** Anderson, Cheryl; Coghlin, Angela; Connors, Martin; de Groot, Elizabeth; Dennis, Lisa; Derer, Donna; Dos Santos, Brianne; Gedies, Tracy; Hamilton, Brandy; Harwood, Amber; Hoggart, Christina; Lamoureux, Janice; Gaudet, Lynne; Macnab, Jeff; Mask, Melissa; McCallum, Tiffany; Nash, Kevin; Paterson, Cheryl; Pietens, Joanne; Potts, Justin; Prtenjaca, Mary; Robinson, Devin; Schwartz, Dave; Siroyt-Vandelaar, Christine; Spicer, Christine; Dobson, Susan; Vogt, Krista; Zawada, Dan  
**Cc:** Fair, Ross; Cluett, Susan; Derer, Donna; Flood, Lisa; O'Neill, Darlene; Villeneuve, Danielle; Dos Santos, Brianne  
**Subject:** Program/offering Changes for St Thomas

There are a few changes in programming and offerings at the St Thomas campus beginning in January. Some of these you may be aware of, others are new. Here is a summary:

**New program:**

Power Engineering Technician – 4<sup>th</sup> Class – set to begin January 2019. Level 2 will be in summer 2019. Reverts to a fall intake in September with no further winter intakes. Program number is PEQ1S. Domestic target is 15, max 18. International target is 5, max 7.

**Change to existing program:**

Renewable Energies Technician – this is currently an accelerated program delivered in 3 levels over 48 weeks (RET2S). It is changing to a more traditional model of 4 levels of 15 weeks for a total of 60 weeks beginning in Sept 2019. It will also become mandatory co-op at that time. No other information is changing (program title, weights, funding units, MCU/APS codes). New program number will be RET3S.

If you have any questions, please let me know.

Terry

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